

Figure 1

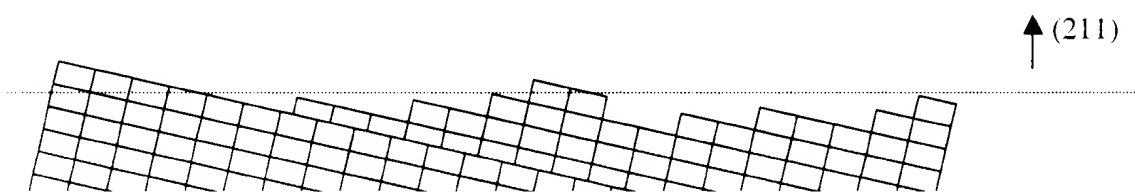


Figure 2

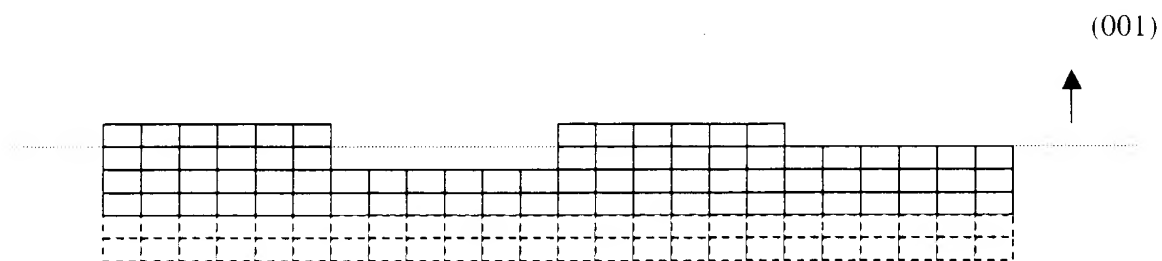


Figure 3

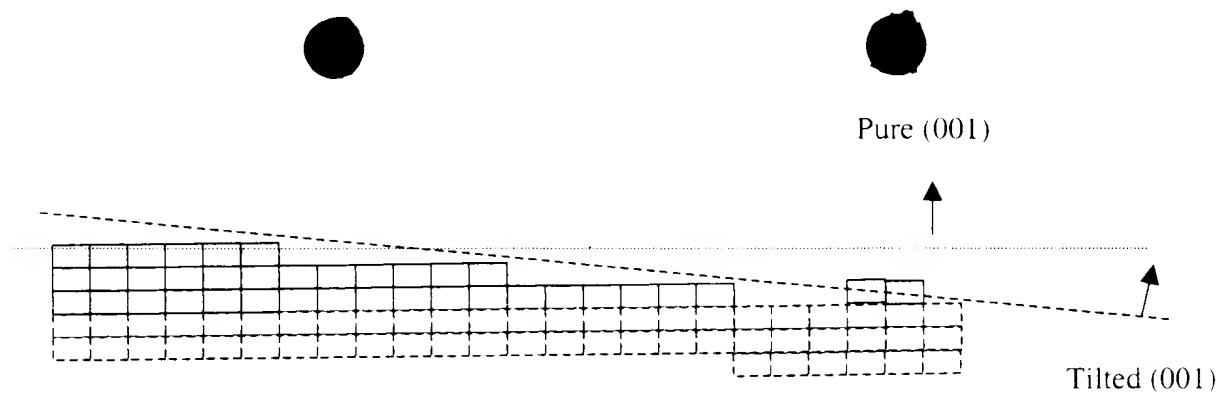


Figure 4

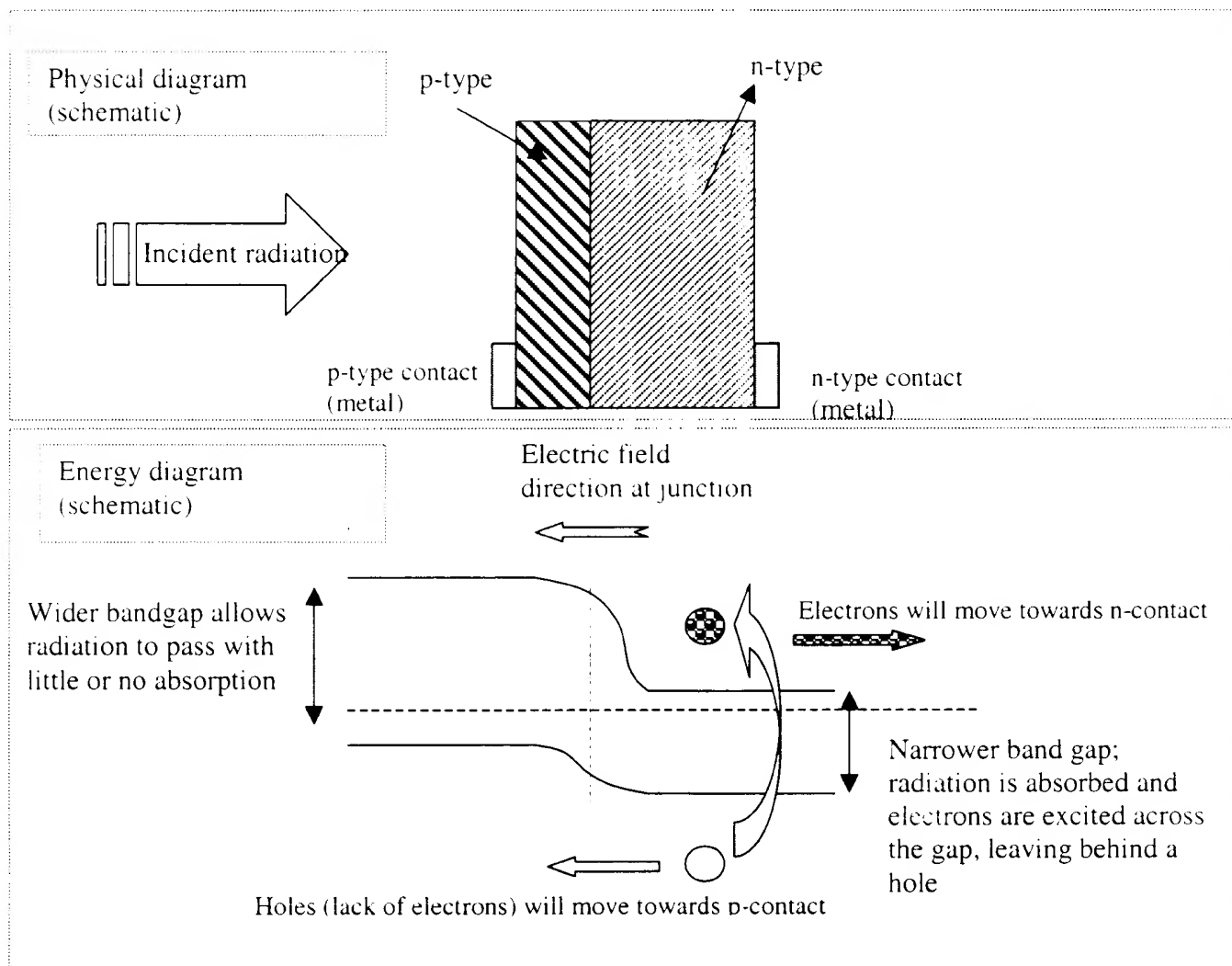
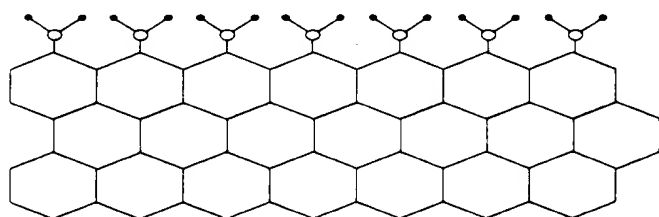
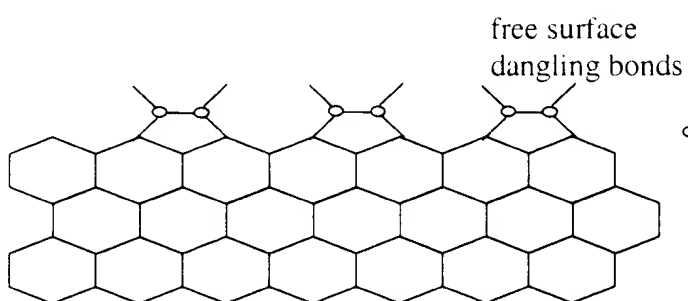


Figure 5



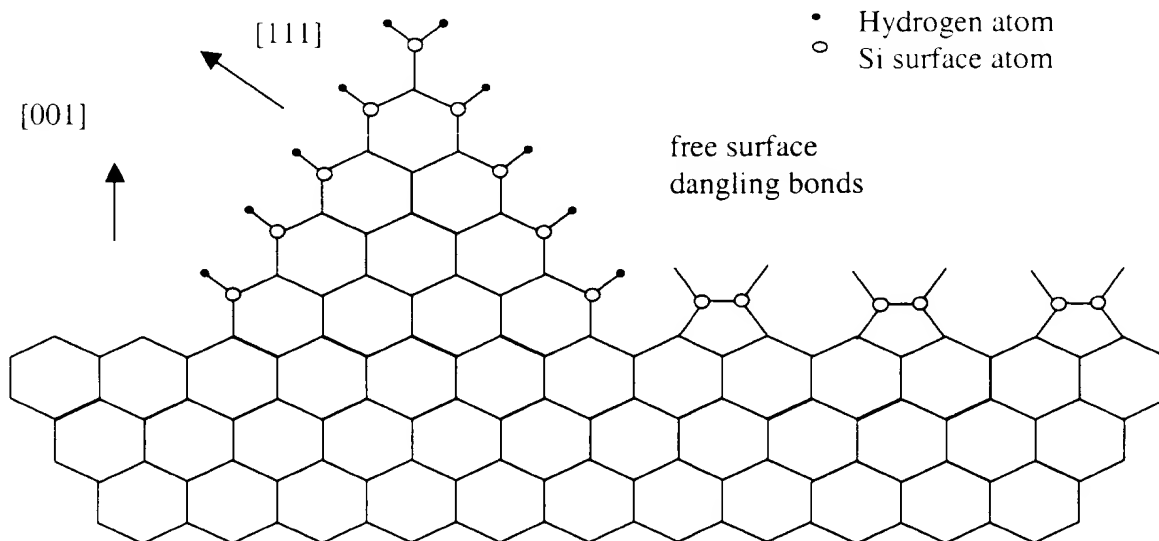
• Hydrogen atom  
○ Si surface atom

Figure 6



○ Si surface atom

Figure 7



• Hydrogen atom  
○ Si surface atom

free surface  
dangling bonds

Figure 8

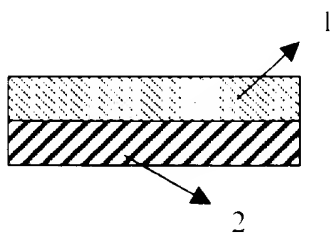


FIG. 9a

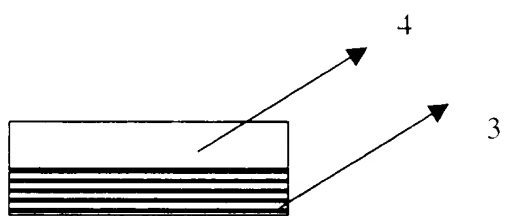


FIG. 9b

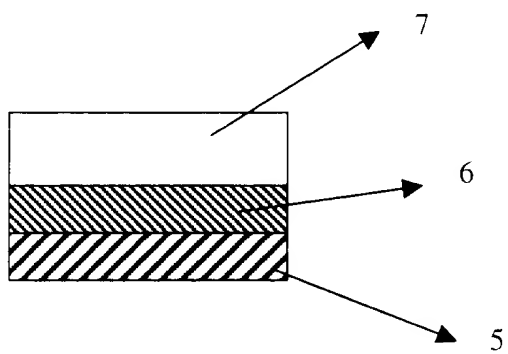
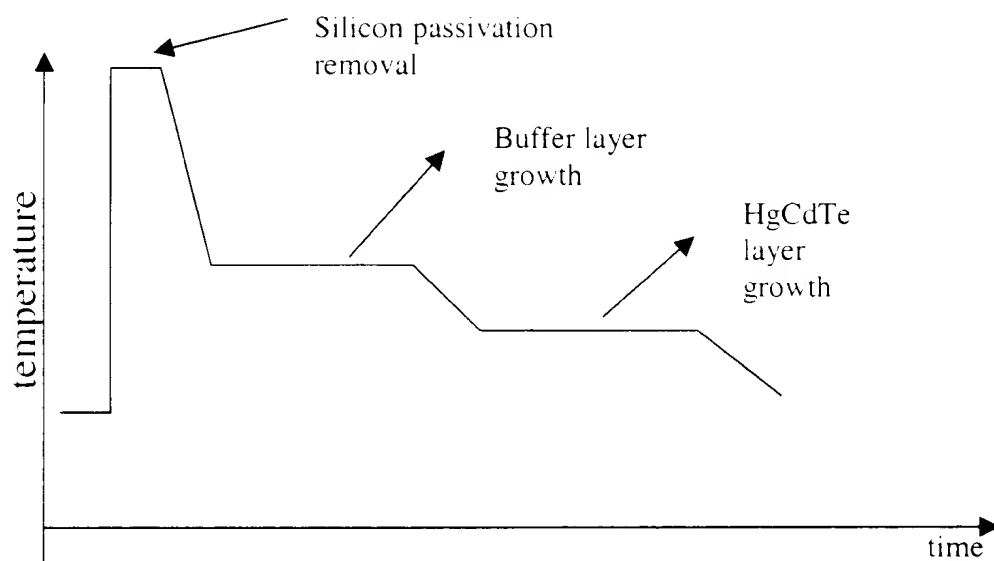
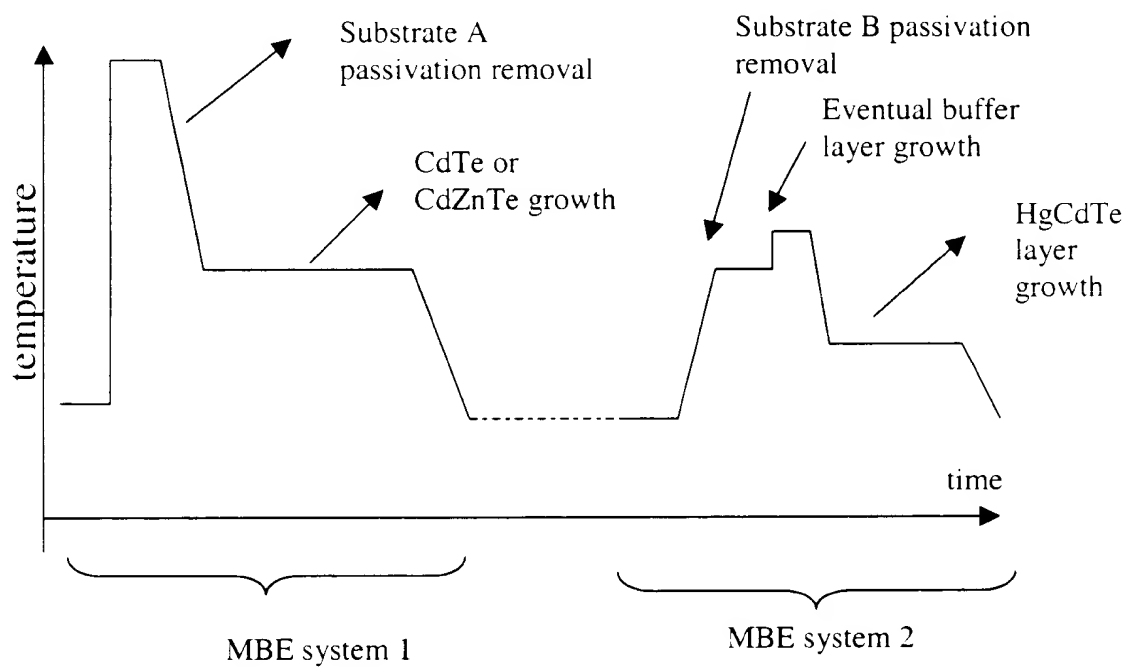


FIG. 9c



(Figure 10a)



(Figure 10b )

Figure 10



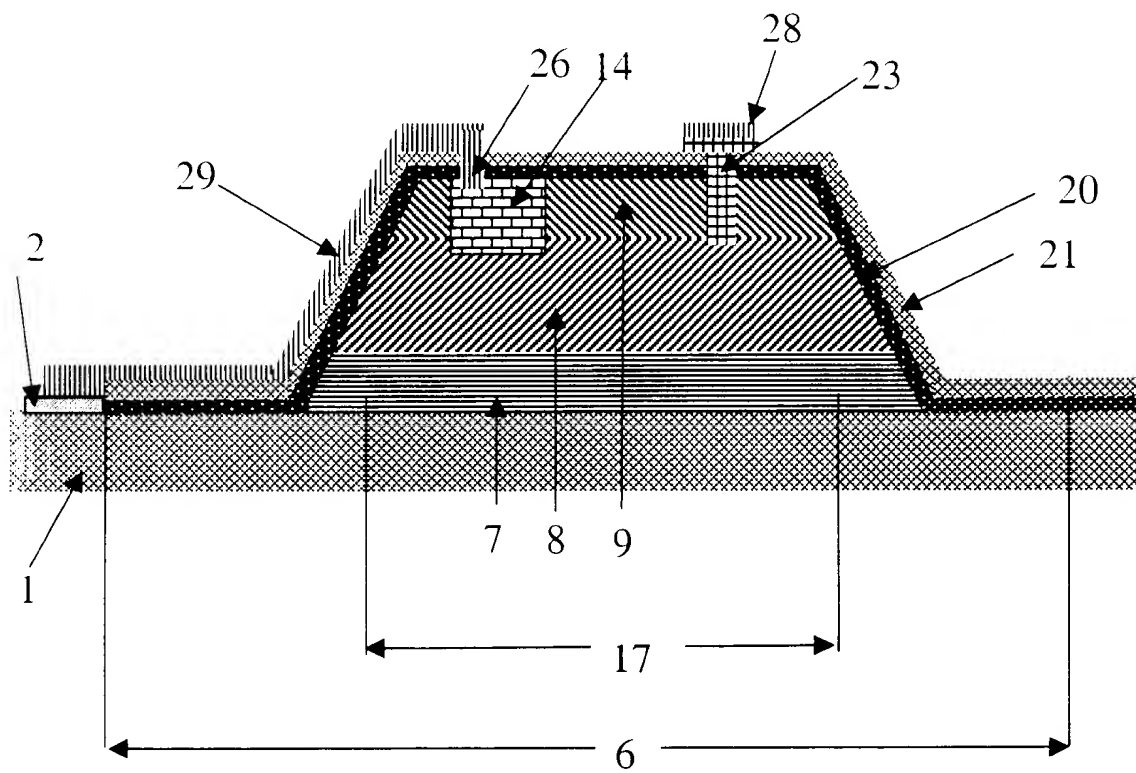
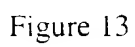


Figure 12







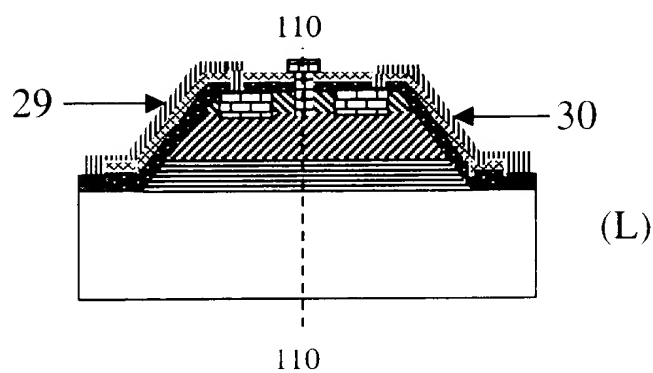
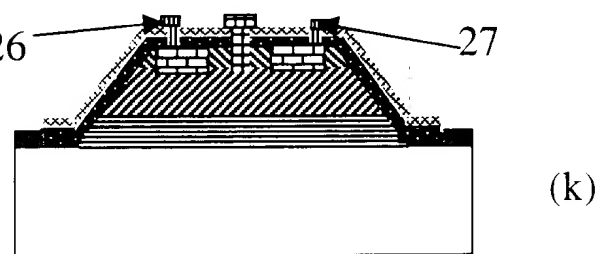
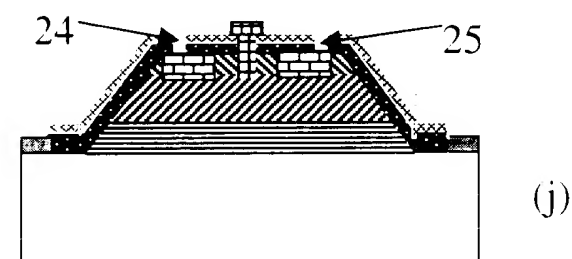
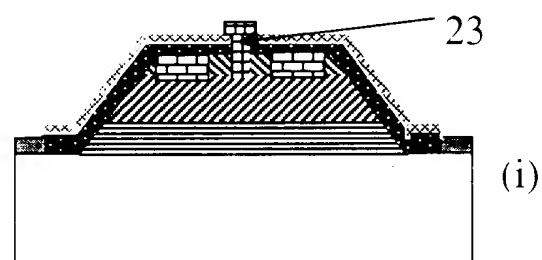
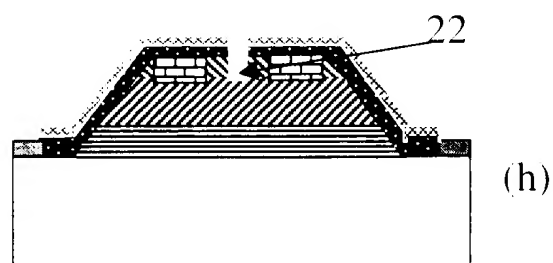
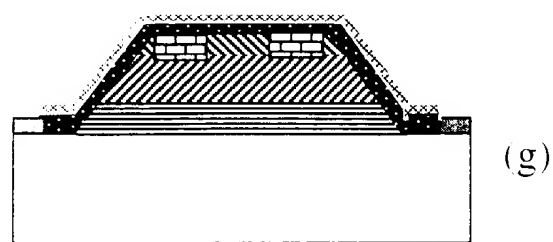
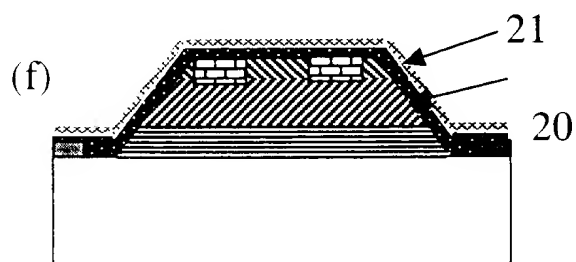
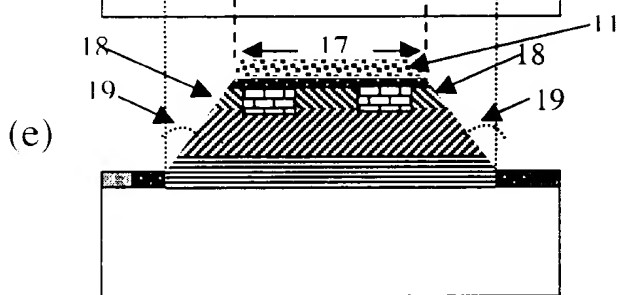
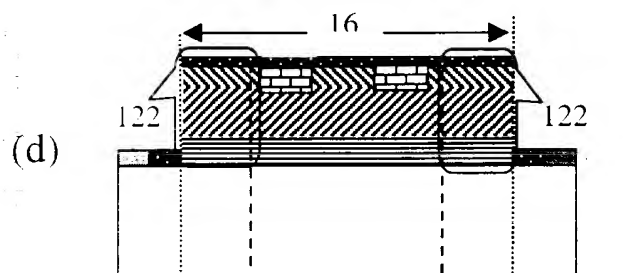
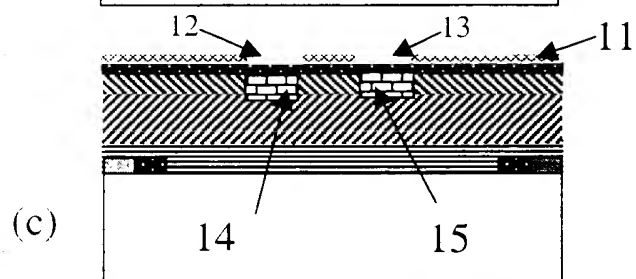
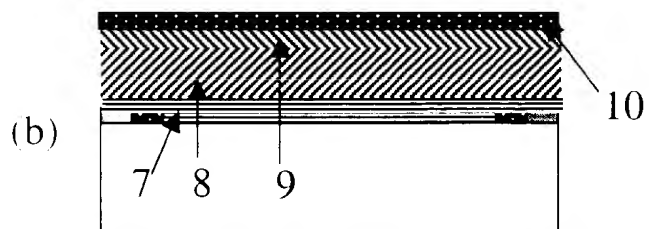
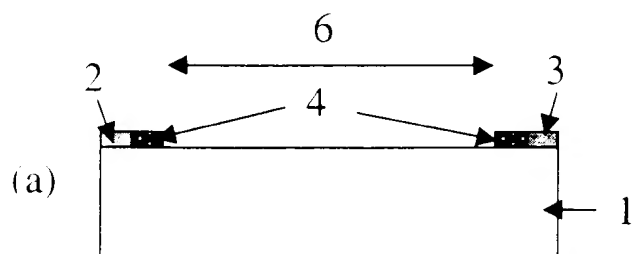


Figure 15

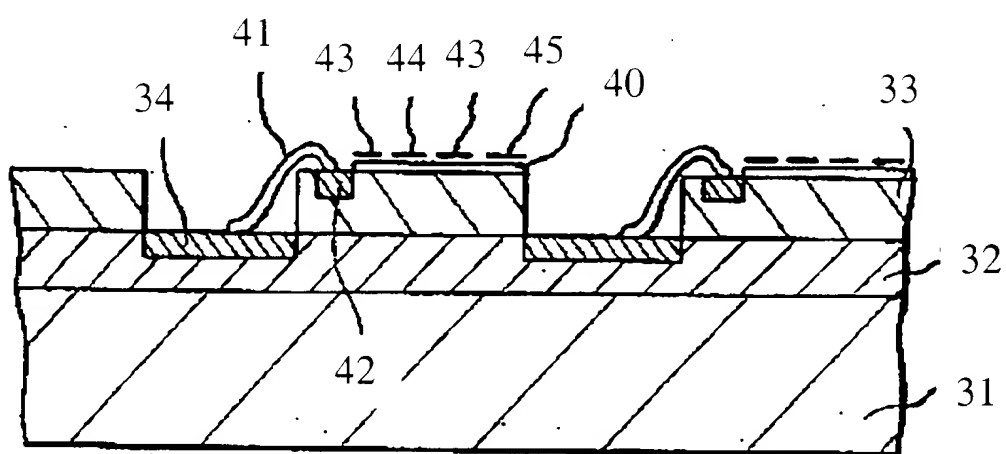


Figure 16 (prior art) – 'Method A'

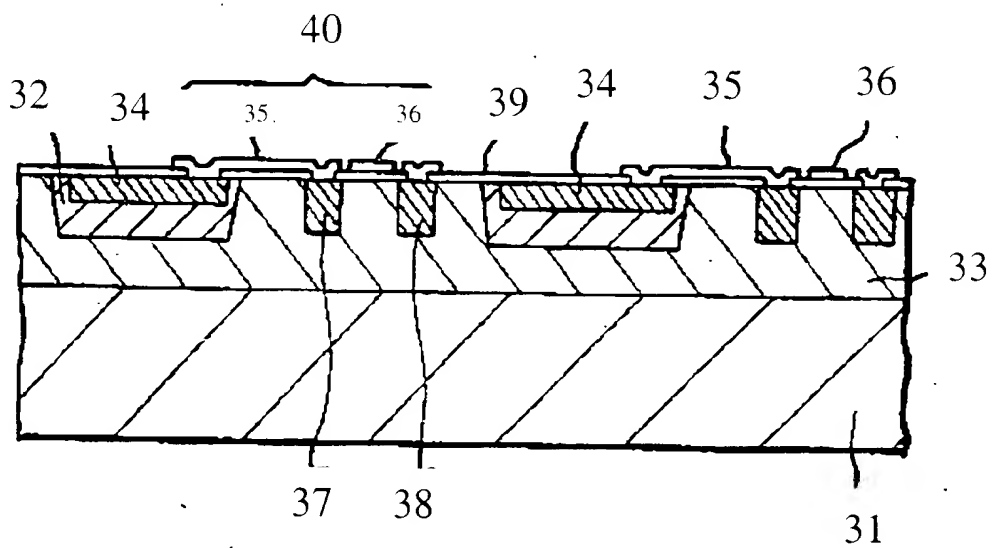


Figure 17 (prior art) – 'Method-B'

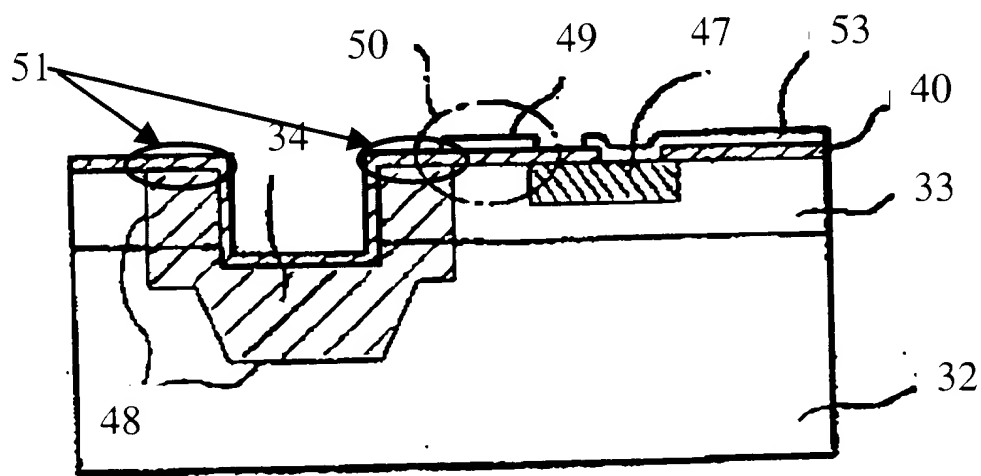


Figure 18 (prior art) – 'Method-C'